

# Chaos in Atomic Physics

R. BLÜMEL  
W. P. REINHARDT

CAMBRIDGE MONOGRAPHS  
ON ATOMIC, MOLECULAR AND  
CHEMICAL PHYSICS

10

# Chaos In Atomic Physics

**G. Franco Bassani, Massimo  
Inguscio, Theodor Hänsch**



## **Chaos In Atomic Physics:**

**Chaos in Atomic Physics** R. Blümel, W. P. Reinhardt, 1997-07-24 This book provides a coherent introduction to the manifestations of chaos in atoms and molecules

**Quantum Chaos — Quantum Measurement** P. Cvitanovic, I. Percival, A. Wirzba, 2013-04-17 This volume contains the proceedings of the NATO Advanced Research Workshop on Quantum Chaos Theory and Experiment held at the Niels Bohr Institute University of Copenhagen from 28 May to 1 June 1991 The work brings together leading quantum chaos theorists and experimentalists and greatly improves our understanding of the physics of quantum systems whose classical limit is chaotic Quantum chaos is a subject of considerable current interest in a variety of fields in particular nuclear physics chemistry statistical mechanics atomic physics condensed matter physics and nonlinear dynamics The volume contains lectures about the currently most active fronts of quantum chaos such as scars semiclassical methods quantum diffusion random matrix spectra quantum chaos in atomic and nuclear physics and possible implications of quantum chaos for the problem of quantum measurement Part of the book The Physics of Quantum Measurements is dedicated to the memory of John Bell

**Irregular Atomic Systems and Quantum Chaos** Jean-Claude Gay, 1992 Deals with the study of irregular behavior in few body systems with emphasis on the aspects of atomic physics Areas covered include the atom in a magnetic field microwave ionization of Rydberg atoms and quasi Wigner crystals in ion traps All but one of the papers first appeared in volume 25 of the journal Comments on atomic and molecular physics No index Annotation copyrighted by Book News Inc Portland OR

**Quantum Chaos — Quantum Measurement** P. Cvitanovic, I. Percival, A. Wirzba, 1992-01-31 This volume contains the proceedings of the NATO Advanced Research Workshop on Quantum Chaos Theory and Experiment held at the Niels Bohr Institute University of Copenhagen from 28 May to 1 June 1991 The work brings together leading quantum chaos theorists and experimentalists and greatly improves our understanding of the physics of quantum systems whose classical limit is chaotic Quantum chaos is a subject of considerable current interest in a variety of fields in particular nuclear physics chemistry statistical mechanics atomic physics condensed matter physics and nonlinear dynamics The volume contains lectures about the currently most active fronts of quantum chaos such as scars semiclassical methods quantum diffusion random matrix spectra quantum chaos in atomic and nuclear physics and possible implications of quantum chaos for the problem of quantum measurement Part of the book The Physics of Quantum Measurements is dedicated to the memory of John Bell

**Quantum versus Chaos** K. Nakamura, 1997-05-31 Quantum and chaos key concepts in contemporary science are incompatible by nature This volume presents an investigation into quantum transport in mesoscopic or nanoscale systems which are classically chaotic and shows the success and failure of quantum semiclassical and random matrix theories in dealing with questions emerging from the mesoscopic cosmos These traditional theories are critically analysed and this leads to a new direction To reconcile quantum with chaos and to restore genuine temporal chaos in quantum systems a time discrete variant of quantum dynamics is proposed Audience This book will be of

interest to graduate students and researchers in physics chemistry and mathematics whose work involves fundamental questions of quantum mechanics in chaotic systems

**Quantum Chaos and Statistical Nuclear Physics** Thomas H. Seligman, Hidetoshi Nishioka, 1986

**Chaos and Quantum Chaos** W. Dieter Heiss, 1992-12-14

Until now the important concept of quantum chaos has remained somewhat ill defined This volume tackles the ubiquitous borderline between classical and quantum mechanics studying in particular the semiclassical limit of chaotic systems The effects of disorder from dynamics and their relation to stochastic systems quantum coherence effects in mesoscopic systems and the relevant theoretical approaches are fruitfully combined in this volume The major paradigms of what is called quantum chaos random matrix theory and applications to condensed matter and nuclear physics are presented Detailed discussions of experimental work with particular emphasis on atomic physics are included The book is highly recommended for graduate student seminars

Theoretical Atomic Physics Harald Friedrich, 2017-05-10

This expanded and updated well established textbook contains an advanced presentation of quantum mechanics adapted to the requirements of modern atomic physics It includes topics of current interest such as semiclassical theory chaos atom optics and Bose Einstein condensation in atomic gases In order to facilitate the consolidation of the material covered various problems are included together with complete solutions The emphasis on theory enables the reader to appreciate the fundamental assumptions underlying standard theoretical constructs and to embark on independent research projects The fourth edition of Theoretical Atomic Physics contains an updated treatment of the sections involving scattering theory and near threshold phenomena manifest in the behaviour of cold atoms and molecules Special attention is given to the quantization of weakly bound states just below the continuum threshold and to low energy scattering and quantum reflection just above Particular emphasis is laid on the fundamental differences between long ranged Coulombic potentials and shorter ranged potentials falling off faster than  $1/r^2$  at large distances  $r$  The new sections on tunable near threshold Feshbach resonances and on scattering in two spatial dimensions also address problems relevant for current and future research in the field of cold and ultra cold atoms Graduate students and researchers will find this book a valuable resource and comprehensive reference alike

*Quantum Chaos* Y2K Karl-Fredrik Berggren, 2001

Quantum chaos is becoming a very wide field that ranges from experiments to theoretical physics and purely mathematical issues In view of this grand span Nobel Symposium 116 focused on experiments and theory and attempted to encourage interplay between them There was emphasis on the interdisciplinary character of the subject involving a broad range of subjects in physics including condensed matter physics nuclear physics atomic physics and elementary particle physics The physics involved in quantum chaos has much in common with acoustics microwaves optics etc and therefore the symposium also covered aspects of wave chaos in this broader sense The program was structured according to the following areas manifestations of classical chaos in quantum systems transport phenomena quantal spectra in terms of periodic orbits semiclassical and random matrix approaches quantum chaos in interacting systems chaos and tunneling wave dynamic chaos

This important book constitutes the proceedings of the symposium Chaos In Laser-matter Interactions Peter W Milonni, M-I Shih, J R Ackerhalt, 1987-06-01 Contents Dissipative Systems Introduction Nonlinearity Period Doubling to Chaos Lyapunov Exponent Power Spectra Correlations Remarks Feigenbaum Universality Feigenbaum Universality Outline of Exact Renormalization Theory Experimental Observations Duffing Oscillator Period Doubling to Chaos in a CO<sub>2</sub> Laser Experiment Bifurcations Intermittency Pomeau Manneville Route to Chaos Quasiperiodicity to Chaos Ruelle Takens Newhouse Scenario Strange Attractors Dimensions and Fractals Measuring Lyapunov Exponents Measuring Dimensions Kolmogorov Entropy Noise Maxwell Bloch Equations Lorentz Model and Single Mode Laser Single Mode Instabilities Homogeneous Broadening Mode Splitting Inhomogeneous Broadening Chaos Associated with Casperson Instability Inhomogeneous Broadening Experiments Multimode Instabilities Physical Explanations of Self Pulsing Instabilities Transverse Mode Effects More Laser Instabilities Optical Bistability Chaos in Optically Bistability Hamiltonian Systems Classical Hamiltonian Systems Integrability and Action Angle Variables Integrability Invariant Tori and Quasiperiodicity Ergodicity Mixing and Chaos Fermi Pasta Ulam Model KAM Theorem Overlapping Resonances Henon Heiles Model Characterization of Chaotic Behavior Is Classical Physics Really Deterministic Kicked Pendulum and Standard Mapping Chaos in a Classical Model of Multiple Photon Excitation of Molecular Vibrations Chaos in a Classical Model of a Rotating Molecule in a Laser Field Stochastic Excitation Quantum Chaos Regular and Irregular Spectra Kicked Two State System Chaos in the Jaynes Cummings Model Quantum Theory of the Kicked Pendulum Localization Classical and Quantum Calculations for a Hydrogen Atom in a Microwave Field Epilogue Readership Laser scientists and engineers physicists applied mathematicians and researchers in nonlinear dynamics Related Books Free and Guided Optical Beams Laser Cleaning II A Bouquet of Numbers and Other Scientific Offerings Universal Fluctuations Geometric Perturbation Theory in Physics *Atoms in Strong Fields* C.A. Nicolaides, Charles W. Clark, Munir H. Nayfeh, 2013-11-11 This book collects the lectures given at the NATO Advanced Study Institute on Atoms in Strong Fields which took place on the island of Kos Greece during the two weeks of October 9-21 1988 The designation strong field applies here to an external electromagnetic field that is sufficiently strong to cause highly nonlinear alterations in atomic or molecular structure and dynamics The specific topics treated in this volume fall into two general categories which are those for which strong field effects can be studied in detail in terrestrial laboratories the dynamics of excited states in static or quasi static electric and magnetic fields and the interaction of atoms and molecules with intense laser radiation In both areas there exist promising opportunities for research of a fundamental nature An electric field of even a few volts per centimeter can be very strong on the atomic scale if it acts upon a weakly bound state The study of Rydberg states with high resolution laser spectroscopic techniques has made it possible to follow the transition from weak field to strong field behavior in remarkable detail using static fields of modest laboratory strength in the course of this transition the atomic system evolves from one which can be thoroughly understood in terms of field free quantum numbers to one which cannot be

meaningfully associated at all with the zero field states of the atom      *The Hydrogen Atom* G. Franco Bassani, Massimo Inguscio, Theodor Hänsch, 2012-12-06 Atomic hydrogen the simplest of all stable atoms has been a challenge to spectroscopists and theoreticians for many years Here as in similar systems like positronium muonium and possibly helium the accuracy of theoretical predictions is comparable to that of experimental measurements Hence exciting confrontations are possible This together with expected large experimental improvements explains the strong interest in the symposium held in Pisa in June July 1988 The resulting book completely covers the precision spectroscopy of atomic hydrogen and hydrogen like systems and also discusses aspects of QED and the influence of strong fields      Quantum Non-integrability Da-hsuan Feng, Bailin Hao, Jian-min Yuan, 1992-09-30 Recent developments in nonlinear dynamics has significantly altered our basic understanding of the foundations of classical physics However it is quantum mechanics not classical mechanics which describes the motion of the nucleons atoms and molecules in the microscopic world What are then the quantum signatures of the ubiquitous chaotic behavior observed in classical physics In answering this question one cannot avoid probing the deepest foundations connecting classical and quantum mechanics This monograph reviews some of the most current thinkings and developments in this exciting field of physics      **Encyclopedia of Nonlinear Science** Alwyn Scott, 2006-05-17 In 438 alphabetically arranged essays this work provides a useful overview of the core mathematical background for nonlinear science as well as its applications to key problems in ecology and biological systems chemical reaction diffusion problems geophysics economics electrical and mechanical oscillations in engineering systems lasers and nonlinear optics fluid mechanics and turbulence and condensed matter physics among others      Experimental Study and Characterization of Chaos Bai-lin Hao, 1990 This is a continuation of the previous two volumes of review papers on chaotic dynamics and related topics published in 1987 and 1988 respectively In addition to a few reviews written by active researchers specially for the volume it also contains several reviews based on lectures delivered at the Spring School on Experimental Study of Chaotic Phenomena held in Tianjing China in May 1989 and at the session on Nonlinear Dynamics during the Workshop on Condensed Matter Molecular and Atomic Physics held in June August 1989 at the International Centre for Theoretical Physics at Trieste Italy The emphasis has been made on multifractals applied symbolic dynamics the role of unstable orbits and transient chaos This volume would be useful to graduate students and researchers in physical sciences and engineering      **Highly Excited Atoms** J. P. Connerade, 1998-05-07 An introduction to the physics of highly excited easily perturbed or interacting atoms Covers Rydberg states quantum defect theory atomic f values centrifugal barrier effects autoionisation inner shell and double excitation spectra K matrix theory atoms in high laser fields statistical methods quantum chaos and atomic effects in solids      Quantum Chaos and Statistical Nuclear Physics Thomas H. Seligman, Hidetoshi Nishioka, 2014-03-12      *Encyclopedia of Physical Science and Technology* Robert A. Meyers, 1990  
**Classical, Semiclassical and Quantum Dynamics in Atoms** Harald Friedrich, 1997-06-19 Content Description

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**Encyclopedia of Physical Science and Technology** ,1992

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
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